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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,177	02/09/2004	Gabi Elgressy	1543/6	6756
Gabi Elgressy	7590 02/20/2009 rin 6		EXAMINER	
Menachem Beg			PHASGE, ARUN S	
Kiryat Ono,, ISRAEL			ART UNIT	PAPER NUMBER
			1795	
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			02/20/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)		
Office Action Summary		10/773,1			ELGRESSY, GABI	
		Examine		Art Unit		
		Arun S. F	Phasge	1795		
Period fo	The MAILING DATE of this communicati or Reply	ion appears on th	ne cover sheet w	ith the correspondence	address	
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Status						
2a)⊠	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b)[Since this application is in condition for a closed in accordance with the practice upon the condition of the closed in accordance with the practice upon the closed in the	This action is allowance excep	non-final. ht for formal mat	• •	the merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 45-69 is/are pending in the app 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) 45-69 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction  on Papers The specification is objected to by the Ex The drawing(s) filed on is/are: a)[ Applicant may not request that any objection	vithdrawn from continuous and/or election caminer.  ☐ accepted or be	requirement. o)∏ objected to	_		
	Replacement drawing sheet(s) including the	-	-	• •		
•	The oath or declaration is objected to by	the Examiner. N	lote the attache	d Office Action or form	PTO-152.	
12)	Acknowledgment is made of a claim for f All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International see the attached detailed Office action fo	uments have be uments have be ne priority docum Bureau (PCT Ru	en received. en received in A nents have beer ule 17.2(a)).	Application No  received in this Nation	al Stage	
2)  Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	948)	Paper No(	Summary (PTO-413) s)/Mail Date. nformal Patent Application 		

## **DETAILED ACTION**

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

Claims 45-51, 53-63 and new claims 65-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over the E.S.T. Brochure in view of Rohrback and Elliott of record for reasons of record.

New claims 65-69 recite the functional language to the apparatus claims, "wherein said control system is adapted to activate said scraper to scrape said wall, when a measurement of an electrical property associated with a thickness of said scale deposition reaches a pre-determined value, and wherein, if prior to reaching said a pre-determined value, a pre-determined time from an immediately previous scraping is exceeded, said control system is adapted to activate said scraper to scrape said wall.

The combination of references teaching the control system shown by the Rohrback in view of Elliott patents, produces a structure which is capable of accomplishing the desired task

Claims 52 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over the brochure in view of Rohrback and Elliott as applied to claims above, and further in view of Huba of record for reasons of record, wherein Huba teaches the use of constant current (see col 13, example 1).

## Response to Arguments

Applicant's arguments filed 10/7/08 have been fully considered but they are not persuasive.

Applicant does not understand the language and the logic of the Examiner's argument.

The Brochure discloses the electrochemical device with the scraper means. The Rohrback discloses the control of a scraper to remove scale from a surface by the measurement of the thickness and resistivity (see col. 3, lines 38 to col. 4, line 60 and claim 25). The Elliott patent is cited to show the conventional techniques used in the art to remove scale by either observation (which would include the Rohrback techniques of monitoring the resistivity and thickness) or the use of a timer.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the brochure by the teachings of Rohrback and Elliott.

One having ordinary skill in the art would have been motivated to do this modification, because it has been well settled that such a combination of two techniques each of which is taught by the prior art to be useful for the same purpose, into a third

technique which is to be used for the very same purpose would have been obvious to one having ordinary skill with the predictable result in the accomplishment of the same purpose.

Applicant further argues that each reference individually does not teach the limitations of the claims, by making the statement, Why doesn't Rohrback consider the use of a predetermined time to automatically trigger the scraper? For those skilled in the art of electrochemical scale deposition, the reasons are straight forward and manifest:

time-based triggering is not based on any "on-line" monitoring of scale build\up, but, at best, on educated speculation on how thick the layer might he, as a
function of time (e.g., based on some previous observation). Consequently, for
processes that are particularly sensitive to scale thickness, time-based
triggering is inferior to electrical resistance-based triggering, and a fortiori, to
"on-line" electrical resistance-based monitoring and triggering.

Applicant has pointed out the deficiencies in each of the references. However, the rejection is based on the combination of references. The test of obviousness under 35 U.S.C. §103 is not the express suggestion of the claimed invention in any or all of the references, but what the references taken collectively would suggest to those of ordinary skill in the art presumed to be familiar with them. Ex parte Obiaya, 227 U.S.P.Q. 59 BDAPP (1985). One cannot show non-obviousness by attacking the references individually where the rejection is based on a combination of references. In re Young et al, 159 U.S.P.Q. 725.

"Applicant respectfully argues that the Examiner has not demonstrated a genuine advantage to controlling scale thickness by introducing - in addition to the more reliable, physically meaningful electrical resistance-based monitoring and triggering, a second, relatively primitive, non-physically meaningful, time-based parameter." Applicants further allege other "host of practical and significant engineering considerations" to argue that the references teach away from the claimed invention.

The motivation for obviousness is not a "genuine advantage" is obtained by the combination, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

Finally, Applicant respectfully submits that Elliott's art is significantly different from that of the instant invention. Elliott's art is the art of steam production using a boiler apparatus. The product -steam - is separated from the solid impurities by evaporation, and not necessarily by scale deposition. One skilled in the art will readily appreciate Elliott's tolerance for scale thickness would appear to be significantly higher than the tolerance in Rohrback or in the system of the present invention.

In response to applicant's argument that Elliott is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was

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concerned, in order to be relied upon as a basis for rejection of the claimed invention.

See In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, the

Elliott patent is reasonably pertinent to the problem of removal of scale from a surface

by controlling the scraper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-

1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Arun S. Phasge/ Primary Examiner, Art Unit 1795